United States Office of Air Quality Planning and Standards Environmental

Information Transfer and Program Integration Division

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AQS Data Dictionary

DRAFT

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1.0 INTRODUCTION

This manual is the data dictionary for the Air Quality System (AQS). It describes the AQS columns (fields) contained within the Air Quality System.

This version of the data dictionary lists only those fields contained in the Batch Input transactions. Further releases of the document will add the remaining database columns.

The data dictionary is organized by sections. Section 2.0 describes the AQS database columns. The columns are presented in alphabetical order. Column definitions include the Name, Description, Attributes, and Source.

The appendices contain details of the data contained in some of the reference (look up) tables. This data will be updated as changes are made. The appendices, for both the Data Dictionary and Data Coding Manual, are posted as a separate (downloadable) pdf file on the AQS TTN website (http://www.epa.gov/ttn/airs/aqs/).

2.0 AQS ELEMENTS

ACCURACY AUDIT ID NUMBER

Description: A sequentially assigned number used to identify a unique measurement data

group for a Monitor on a specific date.

Attributes: Numeric

2-digit code Mandatory

Source: User Input

ACCURACY TYPE

Description: A description of the type of Accuracy Test performed.

Attributes: Alphanumeric

20 characters Mandatory

Source: User Input

ACTION CODE

Description: Indicates the data manipulation action to be performed by the transaction.

Attributes: Alphanumeric

1-character code

Mandatory

Source: User Input

ACTUAL METHOD

Description: Identifies the particular Method for collecting and analyzing the indicated

precision check value. For a collocated data pair, this represents the Method used to collect and analyze the Sample Value from the primary sampler.

Attributes: Alphanumeric

8 characters Mandatory

Source: User Input

ACTUAL VALUE

Description: The true value of the Parameter concentration with which the Monitor was

challenged. For a collocated data pair, the Sample Value from the primary

sampler.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Mandatory (Not required if value is stored as raw data. If reported, it must

equal the value in the Raw Data table)

User Input Source:

AGENCY CODE

Identification of an Agency responsible for performing a role for the Monitor. Description:

Attributes: Alphanumeric

8-character code

Mandatory

User Input Source:

AGENCY PERFORMING AUDIT

Description: For a Precision check that is serving as a performance audit, the identification

of the Agency performing the audit.

Attributes: Alphanumeric

8-character code

Optional

Source: User Input

AGENCY ROLE NAME

Classification of an Agency's role in regard to the Monitor. Description:

Attributes: Alphanumeric

> 20 characters Mandatory

Source: User Input

ALTERNATE MINIMUM DETECTABLE LIMIT

The Minimum Detectable Limit defined for the Monitor by the reporting Description:

Agency, which supercedes the EPA-defined Minimum Detectable Limit for

the designated methodology.

Attributes: Numeric

10-digit number, including five decimal places (nnnnn.nnnnn)

Optional

Source: User Input

ALTERNATE MP ID

Description: The sequential identification number used to distinguish combinations of

Sample Duration, Unit, Method, Sampling Frequency, Composite Type,

and Alternate MDL for a Monitor.

Attributes: Numeric

4-digit number

Optional

Source: User Input

APPLICABLE NAAQS (National Ambient Air Quality Standard Indicator)

Description: Indicates whether the data from a Monitor in a Monitor Planning Area

should be compared to either the short-term or annual NAAQS, or both.

Attributes: Alphanumeric

3-character code

Optional

Source: User Input

AQCR

Description: Specifies in which of the 247 Air Quality Control Regions (AQCRs) the

Monitoring Site is located.

Attributes: Alphanumeric

8-character code

Mandatory

Source: User Input

ARITHMETIC MEAN

Description: The measure of central tendency obtained from the sum of the observed

pollutant data values in the yearly data set divided by the number of values

that comprise the sum for the yearly data set.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

ARITHMETIC STANDARD DEVIATION

Description: The measure of the dispersion about the central tendency of a pollutant

that is the square root of the arithmetic mean of the squares of the variation of each data value from the arithmetic mean of the data values of the yearly

data set.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

AUDIT CLASS

Description: Description of the class of audit taken at the Monitor.

Attributes: Alphanumeric

20 characters Mandatory

Source: User Input

AUDIT SAMPLE ID

Description: The unique ID number of reference sample used to challenge the

instrument.

Attributes: Alphanumeric

10 characters Optional

Source: User Input

AUDIT SCHEDULED

Description: The initial date that the performance audit was scheduled.

Attributes: Alphanumeric

8 characters Optional

Source: User Input

BEAM LENGTH

Description: The length of the Beam projected between the transmitter and the receiver

at the Site, in meters.

Attributes: Numeric

10-digit number, including 2 decimal places (nnnnnnn.nn)

Mandatory

Source: User Input

BEGIN DATE

Description: The date on which the Agency began performance of the role for the

Monitor. For the role of Reporting, it also indicates the date that Precision

and Accuracy Data applies to the Agency as reporting organization.

Attributes: Date

8-character date

Mandatory

BLOCK

Description: Specification of the US Census Bureau Block within which the Site is

located.

Attributes: Alphanumeric

4-character code

Optional

Source: User Input

BLOCK GROUP

Description: Specification of the US Census Bureau Block Group within which the Site

is located.

Attributes: Alphanumeric

1-character code

Optional

Source: User Input

CENSUS TRACT

Description: Specification of the US Census Bureau Census Tract/Block Numbering

Area within which the Site is located.

Attributes: Alphanumeric

6-character code

Optional

Source: User Input

CITY CODE

Description: Specification of the City within whose legal boundaries the monitoring Site

is located.

Attributes: Alphanumeric

5-character code

Mandatory

Source: User Input

CLASS I AREA

Description: Specification of the Class One Area within which the Site is located. A

Class One Area is a geographic area recognized by the EPA as being of the

highest environmental quality and requiring maximum protection.

Attributes: Alphanumeric

8-character code

Optional

CMSA REPRESENTED

Description: Indication of the Consolidated Metropolitan Statistical Area from which

the concentrations originated, not the location of the Monitor.

Attributes: Alphanumeric

Up to 8-character code

Optional

Source: User Input

COLLOCATED POC ID

Description: The POC of the duplicate sampler. Only applies to collocated data where

the duplicate value is a recorded daily Raw Data point.

Attributes: Alphanumeric

2-character code

Optional

Source: User Input

COLLOCATION BEGIN DATE

Description: The beginning date of the time period during which a collocated monitor

pair recorded Precision and Accuracy data. Used to determine data

completeness.

Attributes: Date

8-character date

Mandat or y

Source: User Input

COLLOCATION END DATE

Description: The ending date of the time period during which a collocated monitor pair

recorded Precision and Accuracy data. Used to determine data

completeness.

Attributes: Date

8-character date

Optional

Source: User Input

COMMUNITY MONITORING ZONE

Description: Sequential number assigned to an optional averaging area with an

established, defined boundary within a Monitor Planning Area that has relatively uniform concentration of annual PM2.5. Community Monitoring

Zones do not cross geographical lines.

Attributes: Numeric

4-digit number

Optional

Source: User Input

COMPASS SECTOR

Description: A representation of the true, as opposed to magnetic, direction of the Site

from the central business district. If the Site is within the central business

district, it is a representation of the direction the probe faces.

Attributes: Alphanumeric

3-character code

Optional

Source: User Input

COMPLIANCE DATE

Description: The date on which the current status of the Monitor's compliance with the

regulation was achieved.

Attributes: Date

8-character date

Mandatory

Source: User Input

COMPLIANCE INDICATOR

Description: The compliance status of a Monitor with respect to an EPA regulation.

Attributes: Alphanumeric

1-character code

Mandatory

Source: User Input

COMPOSITE TYPE

Description: The time period over which samples are composited, or the frequency of

submitting composite samples.

Attributes: Alphanumeric

Up to 20 characters

Optional

Source: User Input

CONGRESSIONAL DISTRICT

Description: Specification of the Congressional District within which the Site is located.

Attributes: Numeric

12-digit code (nnnnnnnnnn)

Optional

COUNT OF OBSERVATIONS

Description: The number of Raw Data values that are the basis for the Summary values.

Attributes: Numeric

5 digits Optional

Source: User Input

COUNTY CODE

Description: A FIPS code that identifies a county, or equivalent geo-political entity,

such as parish or independent city. For foreign countries, it identifies the geo-political equivalent to U. S. states, such as Mexican states or Canadian

provinces.

Attributes: Alphanumeric

3-digit code Mandatory

Source: User Input

DATE (Transaction RA - Accuracy Data)

Description: Designation of the calendar date for which the accuracy audit is being

reported.

Attributes: Alphanumeric

8 characters Mandatory

Source: User Input

DATE (Transaction RD - Hourly, Daily, Sub-Hourly Raw Data)

Description: Designation of the calendar date for which the observation is being

reported.

Attributes: Alphanumeric

8-digit number

Mandatory

Source: User Input

DATE (Transaction RP - Precision Data)

Description: Designation of the calendar date for which the precision check is being

reported.

Attributes: Date

8-character date

Mandatory

DATE OF HIGHEST SAMPLE VALUE

Description: The earliest date on which the highest Sample Value in the yearly data set

was reported.

Attributes: Alphanumeric

8 characters

Optional

Source: User Input

DATE OF SECOND HIGHEST SAMPLE VALUE

Description: If the second highest value is less than the highest, this identifies the earliest

date on which the second highest Sample Value in the yearly data set was reported; if the second highest is equal to the highest, this identifies the

second earliest date on which the value was reported.

Attributes: Alphanumeric

8 characters Optional

Source: User Input

DATE SAMPLING BEGAN

Description: The date on which a distinct period of operations, i.e., collection of air

quality samples, began for the Monitor.

Attributes: Date

8-character date

Mandatory

Required on Insert Optional on Update May not be Deleted

Source: User Input

DATE SAMPLING ENDED

Description: The date on which a distinct period of operations, i.e., collection of air

quality samples, stopped for the Monitor.

Attributes: Date

8-character date

Optional

Source: User Input

DATE SITE ESTABLISHED

Description: The date on which an air monitoring Site began collecting air quality data.

Attributes: Date

8-digit date Optional Source: User Input

DATE SITE TERMINATED

Description: The date on which a monitoring Site ceased to operate.

Attributes: Date

8-digit date Optional

Source: User Input

DIRECTION FROM MONITOR

Description: Indication of the direction from the Monitor to the obstruction itself.

Attributes: Alphanumeric

3 characters Mandatory

Source: User Input

DIRECTION TO METEOROLOGICAL SITE

Description: A representation of the true, as opposed to magnetic, direction of the

Meteorological Site from this Site.

Attributes: Alphanumeric

3-character code

Optional

Source: User Input

DIRECTION TO STREET

Description: Identification of the direction from the Site to the street at its nearest point.

Attributes: Alphanumeric

3-character code

Mandatory

Source: User Input

DIRECTION TO TRANSMITTER

Description: Identification of the direction of the transmitter from the receiver at the

Site.

Attributes: Alphanumeric

3-characters Mandatory

DISTANCE FROM MONITOR

Description: The distance in meters between the sensing of air sampling equipment at a

monitoring Site and the nearest edge of the roadway.

Attributes: Numeric

10 digits, including 2 decimal places (nnnnnnn.nn)

Optional

Source: User Input

DISTANCE FROM PRIMARY MONITOR

Description: The distance, in meters, between a duplicate sampler and the primary

sampler in a collocated pair.

Attributes: Numeric

10-digit number, including two decimal places (nnnnnnn.nn)

Optional

Source: User Input

DISTANCE TO CITY

Description: The distance, in kilometers, to the Site from the center of the downtown

central business district of the city in which the Site is located.

Attributes: Numeric

10-digit number, including two decimal places (nnnnnnn.nn)

Optional

Source: User Input

DISTANCE TO METEOROLOGICAL SITE

Description: The distance of the associated Meteorological Site from the air quality

monitoring Site, in meters. This information is required if the Site has monitors that are part of a Photochemical Assessment Monitoring System

network. The associated Site need not be an AQS Site.

Attributes: Numeric

10-digit number, including two decimal places (nnnnnnn.nn)

Optional

Source: User Input

DISTANCE TO MONITOR

Description: The closest distance, in meters, between the probe and obstruction.

Attributes: Numeric

10-digit number, including 2 decimal places (nnnnnnn.nn)

Mandatory

DOMINANT SOURCE

Description: Indication of the primary source of the pollutant begin measured.

Attributes: Alphanumeric

Up to 20 characters

Optional

Source: User Input

END DATE

Description: The date on which the Agency ended a period of performance of the role

for the Monitor. For the role of Reporting, it also indicates the last date that Precision and Accuracy Data applies to the Agency as reporting

organization.

Attributes: Date

8-character date

Mandatory

Source: User Input

EXCEPTIONAL DATA TYPE

Description: Indication of whether Exceptional Data exists in the year being

summarized, and whether such Exceptional Data is included in the reported

Summary values.

Attributes: Numeric

1-digit code

Mandatory

Source: User Input

EXPIRATION DATE

Description: The expiration date for the local primary standard.

Attributes: Alphanumeric

8 characters

Optional

Source: User Input

FIFTH HIGHEST SAMPLE VALUE

Description: The fifth highest Sample Value in the yearly Sample Value set.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

FOURTH HIGHEST SAMPLE VALUE

Description: The fourth highest Sample Value in the yearly Sample Value set.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

GEOMETRIC MEAN

Description: The measure of central tendency obtained from the sum of the logarithms

of observed Sample Values in the yearly data set, divided by the number of

values, with that result applied as an exponent to 10.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

GEOMETRIC STANDARD DEVIATION

Description: The measure of the dispersion about the central tendency of a pollutant that

is based on the variation between geometric mean of a sample of values

and the logarithms of the values themselves.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

HEIGHT OF OBSTRUCTION

Description: The height, in meters, of the top of the obstruction above the probe.

Attributes: Numeric

10-digit number, including 2 decimal places (nnnnnnn.nn)

Mandatory

Source: User Input

HEIGHT OF RECEIVER

Description: The height of the receiver above the ground, in meters.

Attributes: Numeric

10-digit number, including 2 decimal places (nnnnnnn.nn)

Mandatory

HEIGHT OF TRANSMITTER

Description: The height of the transmitter above the ground, in meters.

Attributes: Numeric

10-digit number, including 2 decimal places (nnnnnnn.nn)

Mandatory

Source: User Input

HIGHEST SAMPLE VALUE

Description: The highest Sample Value in the yearly Sample Value set.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

HORIZONTAL DISTANCE

Description: The horizontal distance, in meters, of the probe from its supports.

Attributes: Numeric

10-digit number, including two decimal places (nnnnnnn.nn)

Optional:

Required on Insert Optional on Update May not be Deleted

Source: User Input

HQ EVALUATION DATE

Description: A specification of the date on which the most recent headquarters

evaluation of the Site occurred.

Attributes: Date

8-digit date
Optional

Source: User Input

INDICATED METHOD

Description: Identifies the particular method for collecting and analyzing the Sample

Value from the duplicate sampler. Only applies to collocated data.

Attributes: Alphanumeric

8-character code

Optional

INDICATED VALUE

Description: The observed value of the Parameter concentration with which the Monitor

was challenged. For a collocated data pair, the Sample Value from the

duplicate sampler.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Mandatory

Source: User Input

LAND USE

Description: Categorization of the prevalent land use within 1/4 mile of the Monitoring

Site.

Attributes: Alphanumeric

Up to 20 characters

Mandatory

Source: User Input

LAND USE UNDER PATH

Description: Identification of the prevalent land use under the path of the beam being

projected between the receiver and transmitter at the Site.

Attributes: Alphanumeric

Up to 20 characters

Mandatory

Source: User Input

LATITUDE

Description: The Monitoring Site's angular distance north or south of the equator

measured in decimal degrees. The associated sign specifies the direction of measurement, a positive number indicating north and negative indicating south. Locational Data Policy (LDP) requires that coordinates be provided

for all Sites.

Attributes: Numeric

Optional

LDP HORIZONTAL DATUM

Description: Specification of the edition of North American Datum used as the basis for

determining the Site coordinates. (The editions of North American Datum

establish a network of monuments and reference points defining a

mathematical surface from which geographic computations can be made.)

Required by EPA Locational Data Policy.

Attributes: Alphanumeric

Up to 120 characters

Mandatory

Source: User Input

LDP MEASUREMENT ACCURACY VALUE

Description: Description of the accuracy of the Site coordinates, as a range reported in

meters. Only the least accurate measurement needs to be recorded,

whether it is latitude or longitude (or UTM easting or northing). Required

by EPA Locational Data Policy.

Attributes: Numeric

10-digit number, including 2 decimal places (nnnnnnn.nn)

Mandatory

Source: User Input

LDP METHOD OF COLLECTION

Description: Method used to determine the latitude/longitude or UTM coordinates.

Required by EPA Locational Data Policy.

Attributes: Alphanumeric

8-character code

Mandatory

Source: User Input

LDP SOURCE SCALE

Description: Identifies the ratio of the map or cartographic product to the true location.

The data element for scale should be the X value of the 1:X ratio (e.g., if the scale is 1:24,000, the value of the scale data element should be 24,000).

The United States Geological Survey 1:24,000 is usually the smallest reasonable scale for locating sub-facility points, such as stacks or pipes. The relative accuracies of maps as a locational tool decreases as the X

value increases. Required by EPA Locational Data Policy.

Attributes: Numeric

12-digit number

Mandatory

LDP VERTICAL ACCURACY VALUE

Description: Description of the accuracy of the LDP Vertical Measure, reported in

meters. Required by EPA Locational Data Policy.

Attributes: Numeric

10-digit number including 2 decimal places (nnnnnnn.nn)

Mandatory

Source: User Input

LDP VERTICAL DATUM

Description: Specification of the edition of North American Datum used as the basis for

determining the Site coordinates. (The editions of North American Datum

establish a network of monuments and reference points defining a

mathematical surface from which geographic computations can be made.)

Required by EPA Locational Data Policy.

Attributes: Alphanumeric

Up to 120 characters

Mandatory

Source: User Input

LDP VERTICAL MEASURE

Description: The elevation, in meters, above or below Mean Sea Level (MSL) of the

Site. Required by EPA Locational Data Policy.

Attributes: Numeric

10-digit number, including 2 decimal places (nnnnnnn.nn)

Optional

Source: User Input

LDP VERTICAL METHOD

Description: Method used to determine the LDP Vertical Measure.

Attributes: Alphanumeric

3-character code

Mandatory

Source: User Input

LEVEL 1-4 ACTUAL VALUE

Description: The true observation of the Parameter value at the prescribed audit level.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

LEVEL 1-4 INDICATED VALUE

Description: The recorded observation of the Parameter value at the prescribed audit

level.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

LOCAL PRIMARY STANDARD

Description: Identification of the source of the Local Primary Standards used for the

audit.

Attributes: Alphanumeric

30 characters Mandatory

Source: User Input

LOCAL REGION

Description: Specification of a state-specific geographic/administrative area within

which the Site is located.

Attributes: Alphanumeric

8-character code

Optional

Source: User Input

LOCAL SITE NAME

Description: The locally-defined name of the Site.

Attributes: Alphanumeric

Up to 70 characters

Optional

Source: User Input

LOCATION SETTING

Description: A description of the environmental setting within which the Site is located.

Attributes: Alphanumeric

Up to 50 characters

Mandatory

LONGITUDE

Description: The Monitoring Site's angular distance east or west of the prime meridian

at Greenwich, measured in decimal degrees. The associated sign specifies

the direction of measurement, a positive number indicating east and

negative indicating west. Locational Data Policy requires that coordinates

be provided for all Sites.

Attributes: Numeric

Optional

Source: User Input

LOWEST SAMPLE VALUE

Description: The lowest Sample Value in the yearly Sample Value set.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

MAXIMUM HEIGHT

Description: The height of the beam (at the highest point from the ground) being

projected between the receiver and transmitter at the Site, in meters.

Attributes: Numeric

10-digit number, including 2 decimal places (nnnnnnn.nn)

Mandatory

Source: User Input

MEASUREMENT SCALE

Description: A denotation of the geographic scope of the air quality measurements made

by the Monitor. The implication is that the same measurement made elsewhere within the measurement scale would produce an equivalent

result to that produced at the Monitoring Site.

Attributes: Alphanumeric

Up to 20 characters

Optional

Source: User Input

METEOROLOGICAL SITE ID

Description: Identification of the AQS Site ID where meteorological data is collected, if

not collected at this Site.

Attributes: Alphanumeric

9-character code

Optional

Source: User Input

METHOD

Description: Identifies a particular method for collecting and analyzing samples of the

Monitor's Parameter.

Attributes: Alphanumeric

8-character code

Mandatory

Source: User Input

METHOD DETECTABLE LIMIT

Description: The minimum detectable level defined for the Monitor and method.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Source: User Input

MINIMUM HEIGHT

Description: The height of the beam (at the lowest point from the ground) being

projected between the receiver and transmitter at the Site, in meters.

Attributes: Numeric

10-digit number, including 2 decimal places (nnnnnnn.nn)

Mandatory

Source: User Input

MONITOR COMMENTS

Description: Monitor comments is a free-format field that may be used in any way. It is

normally used to describe special features of the Monitor.

Attributes: 62-character field

Optional

Source: User Input

MONITOR OBJECTIVE

Description: Identification of the reason for measuring air quality by the Monitor.

Attributes: Alphanumeric

Up to 50 characters

Mandatory

MONITOR REGULATION CODE

Description: Identification of an EPA regulation for which compliance documentation is

required.

Attributes: Alphanumeric

8-characters Mandatory

Source: User Input

MONITOR TYPE

Description: Identification of the Monitor's administrative classification.

Attributes: Alphanumeric

20-character code Required on Insert Optional on Update May not be Deleted

Source: User Input

MONITOR TYPE BEGIN DATE

Description: The designation of the date on which the Monitor type assignment went

into effect.

Attributes: Date

8-character date

Mandatory

Required on Insert Optional on Update May not be Deleted

Source: User Input

MONITOR TYPE END DATE

Description: The date on which a Monitor type assignment ends.

Attributes: Date

8-character date

Optional

Source: User Input

MSA REPRESENTED

Description: Indication of the Metropolitan Statistical Area from which the

concentrations originated, not the location of the Monitor.

Attributes: Alphanumeric

4 or 8 characters

Optional

Source: User Input

NULL DATA CODE

Description: Code to explain why no Sample Value was reported.

Attributes: Alphanumeric

8-character code

Optional

Source: User Input

NUMBER LESS THAN MINIMUM DETECTABLE VALUE

Description: Represents the number of substitutions of one-half the Method Detectable

Limit value for the year.

Attributes: Numeric

5 digits Optional

Source: User Input

NUMBER OF EXCEPTIONAL EVENTS

Description: The number of data points in the summarized data set that were qualified

by Exceptional Events.

Attributes: Numeric

5 digits Optional

Source: User Input

NUMBER OF SAMPLES (Transaction MF - Monitor Sampling)

Description: Specifies the number of samples required within an indicated month for a

Monitor's Required Collection Frequency when that frequency is stratified random, random, or seasonal. Twelve slots are available, one for each

month in a year.

Attributes: Numeric

12 digits Optional

Source: User Input

NUMBER OF SAMPLES (Transaction RC - Composite Raw Data)

Description: Indicates the number of samples that were combined to yield the composite

Sample Value.

Attributes: Alphanumeric

10-digit number

Mandatory

Source: User Input

OPEN PATH NUMBER

Description: A unique numeric identifier for the individual Open Path at a Site. Each

Open Path represents a different Monitor.

Attributes: Numeric

2-digit number Mandatory

Source: User Input

OTHER LEVEL ACTUAL VALUE

Description: The true observation of the Parameter value at a user-defined level.

Attributes: Numeric

10-character number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

OTHER LEVEL INDICATED VALUE

Description: The reported observation of the Parameter value at a user-defined level.

Attributes: Numeric

10-character number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

PARAMETER

Description: The code assigned to the Parameter measured by the Monitor. Parameters

may be pollutants or non-pollutants.

Attributes: Alphanumeric

5-character code

Mandatory

Source: User Input

PERCENT OF OBSERVATIONS

Description: The percent of actual data values that were reported compared to the

number of data values that could have been reported for the year.

Attributes: Numeric

10-digit number, including 4 decimal places (nnnnn.nnnn)

Optional

PERCENTILE 10

Description: The Sample Value occurring in the tenth percentile of the yearly data set

when sorted from lowest to highest.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

PERCENTILE 25

Description: The Sample Value occurring in the twenty-fifth percentile of the yearly

data set when sorted from lowest to highest.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

PERCENTILE 50

Description: The Sample Value occurring in the fiftieth percentile of the yearly data set

when sorted from lowest to highest.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

PERCENTILE 75

Description: The Sample Value occurring in the seventy-fifth percentile of the yearly

data set when sorted from lowest to highest.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

PERCENTILE 90

Description: The Sample Value occurring in the ninetieth percentile of the yearly data

set when sorted from lowest to highest.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

PERCENTILE 95

Description: The Sample Value occurring in the ninety-fifth percentile of the yearly data

set when sorted from lowest to highest.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

PERCENTILE 98

Description: The Sample Value occurring in the ninety-eighth percentile of the yearly

data set when sorted from lowest to highest.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

PERCENTILE 99

Description: The Sample Value occurring in the ninety-ninth percentile of the yearly

data set when sorted from lowest to highest.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

PERIOD

Description: Indicates the time period within the year to which the observation applies.

It is expressed in units that may be inferred from Composite Type.

Attributes: Alphanumeric

2-digit number

Mandatory

Source: User Input

POC (Parameter Occurrence Code)

Description: The code used to distinguish between multiple Monitors at the same Site

that are measuring the same parameter. For example, the first Monitor

established to measure CO at a Site could have a POC of 1. If an

additional Monitor were established at the same Site to measure CO, that Monitor could have a POC of 2. However, if a new instrument were installed to replace the original instrument used as the first Monitor, that would be the same Monitor and it would still have a POC of 1. For criteria pollutants, data from different sampling methods should only be stored under the same POC if the sampling intervals are the same and the methods

are reference or equivalent. For Sites where duplicate sampling is being conducted by multiple agencies or by one agency with multiple samplers, multiple POCs must be utilized to store all samples. For non-criteria pollutants, data from multiple sampling methods can be stored under the same POC if the sampling intervals are the same.

Attributes: Numeric

2-digit code Mandatory

Source: User Input

POLLUTANT AREA CODE 1, 2, 3, 4, OR 5

Description: Designation of a Pollutant Area to which the Monitor is assigned.

Pollutant Areas are geographic areas defined by a program office in which a certain pollutant should be closely watched. Most are problem or non-attainment areas, but attainment areas requiring special attention may also be defined. Types of Pollutant Areas are Status Areas, Monitoring

Areas, and Monitor Planning Areas.

Attributes: Alphanumeric

5-character code

Optional

Source: User Input

PRECISION ID

Description: A sequentially assigned number used to identify a particular Precision

check from others, when multiple checks are performed on the same day.

Attributes: Numeric

2-digit number

Mandatory

Source: User Input

PRECISION SAMPLE ID

Description: The unique ID number of reference sample used to challenge the

instrument.

Attributes: Alphanumeric

10 characters

Optional

Source: User Input

PRIMARY MONITOR INDICATOR

Description: Indicates whether the Monitor is the primary or duplicate monitor in a

collocated monitor pair.

Attributes: 1-character code: Y or N

Man dat or y

Source: User Input

PROBE HEIGHT

Description: The height of the sampling Probe from the ground in meters.

Attributes: Numeric

10-digit number, including 2 decimal places (nnnnnnn.nn)

Optional:

Required on Insert Optional on Update May not be Deleted

Source: User Input

PROBE LOCATION CODE

Description: Identification of the location of the sampling Probe.

Attributes: Alphanumeric

Up to 20 characters

Optional

Source: User Input

PROJECT CLASS

Description: The designation of the type of sampling performed by the Monitor.

Attributes: Alphanumeric

8-character code

Optional

Source: User Input

QUALIFIER 1-10

Description: Identification of qualifications used to describe the Composite Raw Data.

They may document exceptional data, or quality assurance exceptions.

Attributes: Alphanumeric

8-character code

Optional

Source: User Input

QUARTER REPRESENTED

Description: Indication of the quarter represented by the audit.

Attributes: Numeric

1-digit code

Mandatory

RCF BEGIN DATE

Description: The date on which the Required Collection Frequency went into effect.

Attributes: Date

8-character date Mandatory

Required on Insert

Required on Update if RCF Code valued Prohibited on Update if RCF Code blank

May not be Deleted

Source: User Input

RCF CODE

Description: The Collection Frequency required by either Photo chemical Assessment

Monitoring System (PAMS) regulations for organic compounds, or PM-10

monitors.

Attributes: Alphanumeric

Up to 8 characters

Mandatory

Source: User Input

RCF END DATE

Description: The designation of the date on which the Required Collection Frequency

ended.

Attributes: Date

8 characters

Optional

Source: User Input

REGIONAL EVALUATION DATE

Description: A specification of the date on which the most recent regional evaluation of

the Site for siting criteria occurred.

Attributes: Date

8-digit date

Optional

Source: User Input

SAMPLE DURATION (Transaction Type MK - Monitor Protocol)

Description: The length of time used to acquire raw samples that are analyzed by

monitors and documented in the Raw Data or Precision and Accuracy

Tables. (Formerly: Interval)

Attributes: Alphanumeric

8-character code

Mandatory

Source: User Input

SAMPLE DURATION (Transaction Type RA - Accuracy Data)

Description: Identification of the length of time used to collect the raw Sample Value.

Attributes: Alphanumeric

8-digit number

Mandatory

Source: User Input

SAMPLE DURATION (Transaction Type RD - Hourly, Daily, and Sub-hourly Raw Data)

Description: Identification of the length of time used to collect the raw Sample Value.

Attributes: Alphanumeric

8-digit number

Mandatory

Source: User Input

SAMPLE DURATION (Transaction Type RP - Precision Data)

Description: Identification of the length of time used to collect the raw Sample Value.

Attributes: Alphanumeric

8-digit number

Mandatory

Source: User Input

SAMPLE DURATION (Transaction Type RS - Annual Summary Data)

Description: Identification of the length of time used to collect all the raw data sample

values being summarized.

Attributes: Alphanumeric

8-character code

Mandatory

Source: User Input

SAMPLE RESIDENCE TIME

Description: The time in seconds for the sample to move from the Probe inlet to the

Monitor.

Attributes: Numeric

10-digit number, including two decimal places (nnnnnnn.nn)

Optional

SAMPLE VALUE (Transaction Type RC - Composite Raw Data)

Description: The value of a composite observation.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Mandatory

Source: User Input

SAMPLE VALUE (Transaction Type RD - Hourly, Daily, and Sub-hourly Raw Data)

Description: The value of an observation being reported.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

SAMPLING FREQUENCY

Description: Indicates the elapsed time period between observations.

Attributes: Alphanumeric

8-character code

Optional

Source: User Input

SAMPLING FREQUENCY

Description: Indication of the frequency according to which sample observations are to be

made, specified as the amount of time that elapses between observations. Indicates how often 24-hour samples are taken, e.g., daily, every third day,

stratified random, etc.

Attributes: Alphanumeric

Up to 8-character code

Optional

Source: User Input

SAMPLING METHODOLOGY

Description: Identifies the particular method for collecting and analyzing the Raw Data

values that are the basis of the Summary values.

Attributes: Alphanumeric

8-character code

Mandatory

SCHEDULE EXEMPTION INDICATOR

Description: Indicates whether the sampling schedule differs from that required by the

standard by approval of the Regional Administrator.

Attributes: 1-character code: Y or N

Optional

Source: User Input

SECOND HIGHEST SAMPLE VALUE

Description: The second highest Sample Value in the yearly Sample Value set.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

SITE COMMENTS

Description: Site Comments is a free-format field that may be used in any way desired. It

is normally used to describe special features of a Site. Multiple lines can be

created by incrementing the sequence number. Online update only.

Attributes: 68 characters

Optional

Source: User Input

SITE ID

Description: A numeric code that uniquely identifies each air Monitoring Site within a

county. There is no requirement that Site numbers be assigned continuously or in any particular order. Local organizations are thus free to allocate Site numbers in any way they choose, as long as there is no duplication within a county. A specific Site code is associated with a specific physical location and address. Any change in address requires a new Site code to be assigned. This address change could include a change from the roof of one building to another. A change in location on the same roof should not normally require a new Site code. Although an address change would routinely mean a new Site code, some changes that do not change the Site's location in respect to surrounding sources and its measurement scale would require no change. An EPA Regional Office should be consulted for assistance in determining

whether a new Site code is required.

Attributes: Alphanumeric

4-character code

Mandatory

SOURCE OF TRAFFIC COUNT

Description: The method by which the traffic volume/flow count was obtained.

Attributes: Numeric

10-digit number

Optional

Source: User Input

SPATIAL AVERAGE INDICATOR

Description: Indicates whether spatial averaging is to be performed for the all individual

annual weighted means for Sites that are flagged and in the same community

monitoring zone.

Attributes: Alphanumeric

1-character code

Optional

Source: User Input

START TIME

Description: Indicates the beginning of the sampling period in standard time at the location

of the Monitoring Site.

Attributes: Alphanumeric

5 characters Mandatory

Source: User Input

STATE CODE

Description: FIPS code that identifies one of the 50 states, U. S. territories, Washington,

D.C., or foreign countries.

Attributes: Alphanumeric

2-character code

Mandatory

Source: User Input

STATE OR LOCAL ID

Description: Identification code used by a state or local agency, if different from the

AQS Site ID.

Attributes: Alphanumeric

Up to 40 characters

Mandatory

STREET ADDRESS

Description: Specifies the building/street location of the Monitoring Site.

Attributes: Alphanumeric

Up to 2000 characters

Mandatory

Source: User Input

STREET NAME

Description: The name of the street closest to the Monitoring Site.

Attributes: Alphanumeric

Up to 50 characters

Mandatory

Source: User Input

SUPPORT AGENCY

Description: Identifies the Agency responsible for the operation of the Monitoring Site.

Attributes: Alphanumeric

8-character code

Optional (Mandatory for Insert)

Source: User Input

SURROGATE FLAG INDICATOR

Description: Indicates whether a TSP Monitor serves as a surrogate monitor for PM-10.

Attributes: 1-character code: Y or N

Optional:

Required for TSP Insert Optional for TSP Update Prohibited if not TSP May not be Deleted

Source: User Input

TANGENT STREET NUMBER (Transaction Type AB - Site Street Information)

Description: Identifies the number of the street around the Site for which the data are

being submitted. If Street Name, Type Road, Traffic Flow, Year of Traffic Flow, or Direction to Street is valued, Street Number must be valued. Street Number is used to associate detailed street information for the Site

to streets closest to the monitors at this Site.

Attributes: Numeric

12-digit number (nnnnnnnnnn)

Mandatory

TANGENT STREET NUMBER (Transaction Type MG - Monitor Street Description)

Description: Identification of a street number that exists for the Site. Used to associate

information about the relationship between specific monitors at the Site and

tangent roads at the Site.

Attributes: Numeric

12-digit number

Mandatory

Source: User Input

THIRD HIGHEST SAMPLE VALUE

Description: The third highest Sample Value in the yearly Sample Value set.

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Optional

Source: User Input

TIME OF HIGHEST SAMPLE VALUE

Description: The time of day on which the highest Sample Value in the yearly data set

was reported.

Attributes: Alphanumeric

5 characters
Optional

Source: User Input

TIME OF SECOND HIGHEST SAMPLE VALUE

Description: The time of day on which the second highest Sample Value in the yearly

data set was reported.

Attributes: Alphanumeric

5 characters Optional

Source: User Input

TIME ZONE

Description: A standard Time Zone, as established by Section 1 of the Standard Time

Act, as amended by Section 4 of the Uniform Time Act of 1966 (15 U.S.C

261).

Attributes: Alphanumeric

Up to 30 characters

Optional

TRAFFIC COUNT

Description: An estimate of the daily traffic volume on the roadway.

Attributes: Numeric

12-digit number

Mandatory

Source: User Input

TRANSACTION TYPE

Description: Specifies the record type to be processed by the batch transaction software.

Specifies which batch transaction is being processed by the batch load software (i.e., which tables and columns will be updated with the data in

the delimited fields).

Attributes: Alphanumeric

2-character code

Mandatory

Source: User Input

TYPE AUDIT

Description: Description of who performed the audit and how the audit standard was

certified.

Attributes: Alphanumeric

20 characters Mandatory

Source: User Input

TYPE METEOROLOGICAL SITE

Description: The type of meteorological station identified for the Monitoring Site.

Required for Sites with monitors in a Photochemical Assessment

Monitoring System network.

Attributes: Alphanumeric

Up to 20 characters

Optional

Source: User Input

TYPE OBSTRUCTION

Description: The type of obstruction responsible for the restricted air flow of a Monitor.

Attributes: Alphanumeric

Up to 20 characters

Man dat or y

TYPE ROAD

Description: The type of road or street being described.

Attributes: Alphanumeric

Up to 20 characters

Mandatory

Source: User Input

UNCERTAINTY

Description:

Attributes: Numeric

10-digit number, including 5 decimal places (nnnnn.nnnnn)

Source: User Input

UNIT (Transaction Type MK - Monitor Protocol)

Description: Designation of the dimensional system in which a pollutant concentration

or Parameter reading is expressed.

Attributes: Alphanumeric

3-character code

Mandatory

Source: User Input

UNIT (Transaction Type RA - Accuracy Data)

Description: Designation of the dimensional system in which the pollutant concentration

or parameter reading is expressed.

Attributes: Alphanumeric

3-character code

Mandatory

Source: User Input

UNIT (Transaction Type RC - Composite Raw Data)

Description: Designation of the dimensional system in which the Summary values are

expressed.

Attributes: Alphanumeric

3-character code

Mandatory

Source: User Input

UNIT (Transaction Type RD - Hourly, Daily, and Sub-hourly Raw Data)

Description: Designation of the dimensional system in which the pollutant concentration

or parameter reading is expressed.

Attributes: Alphanumeric

3-character code

Mandatory

Source: User Input

UNIT (Transaction Type RP - Precision Data)

Description: Designation of the dimensional system in which the pollutant concentration

or parameter reading is expressed.

Attributes: Alphanumeric

3-character code

Mandatory

Source: User Input

UNIT (Transaction Type RS - Annual Summary Data)

Description: Designation of the dimensional system in which the summary values are

expressed.

Attributes: Alphanumeric

3-character code

Mandatory

Source: User Input

UNRESTRICTED AIR FLOW INDICATOR

Description: Indication of whether the flow of air to the Monitor is restricted.

Attributes: 1-character code: Y, N, or W

Optional

Source: User Input

URBAN AREA CODE

Description: Specification of the urbanized area within which the Monitoring Site is

located. An urbanized area is a US Census Bureau demographic entity that comprises a place and the adjacent densely-settled surrounding territory

that together have a minimum population of 50,000 people.

Attributes: Alphanumeric

5-character code

Mandatory

Source: User Input

URBAN AREA REPRESENTED

Description: The urbanized area from which the concentrations originated (not the

location of the Monitor).

Attributes: Alphanumeric

4-character code

Optional:

Required on Insert Optional on Update May not be Deleted

Source: User Input

UTM EASTING

Description: The easting UTM coordinate, expressed in meters (i.e., the horizontal

distance from the reference edge of the UTM zone,), for the Site.

Locational Data Policy requires that coordinates be provided for all Sites.

Attributes: Numeric

10-digit number, including two decimal places (nnnnnnn.nn)

Optional

Source: User Input

UTM NORTHING

Description: The northing UTM coordinate expressed in meters (i.e., for the Northern

Hemisphere, the vertical distance from the equator; for the Southern Hemisphere, 10,000,000 minus the vertical distance from the equator) for the Site. Locational Data Policy requires that coordinates be provided for

all Sites.

Attributes: Numeric

10-digit number, including two decimal places (nnnnnnn.nn)

Optional

Source: User Input

UTM ZONE

Description: The zone of the Universal Transverse Mercator (UTM) System in which a

Site is located. Locational Data Policy requires that coordinates be

provided for all Sites.

Attributes:

Source: User Input

VERTICAL DISTANCE

Description: The vertical distance, in meters, of the probe from its supports.

Attributes: Numeric

10-digit number, including two decimal places (nnnnnnn.nn)

Optional:

Required on Insert Optional on Update May not be Deleted Source: User Input

WORST SITE TYPE

Within a particular monitoring area, those monitors with the highest PM-10 Description:

concentrations must have their Worst Site Type set to 1, and are expected to monitor at the recommended sampling frequency. Other monitors must be classified as either: 1) not Worst Site monitors, or 2) monitoring on an accelerated schedule, but not at the recommended sampling frequency.

Attributes: Alphanumeric

8-character code

Optional:

Required for PM-10 Insert Optional for PM-10 Update Prohibited if not PM-10 May not be Deleted

Source: User Input

YEAR (Transaction Type RC - Composite Raw Data)

Designation of the calendar year for which the observation was reported. Description:

Attributes: Alphanumeric

4-digit number

Mandatory

Source: User Input

YEAR (Transaction Type RS - Annual Summary Data)

Description: Indication of the year whose Raw Data is summarized.

Attributes: Numeric

> 4 digits Mandatory

Source: User Input

YEAR OF TRAFFIC COUNT

The year when the Traffic Count value was estimated. Description:

Attributes: Date

> 4-digit date Mandatory

YEAR REPRESENTED

Description: Indication of the year represented by the audit.

Attributes: Numeric

4 digits Mandatory

Source: User Input

ZERO SPAN

Description: A measurement obtained with gas from a zero concentration. Zero Span is

the observed value read from the instrument when the concentration of the

specific Parameter used to test the Monitor was zero.

Attributes: Numeric

10-digit number, including 5 decimals (nnnnn.nnnnn)

Optional

Source: User Input

ZIP CODE

Description: Specification of the US Postal Service Zip Code used to address the

Monitoring Site.

Attributes: Alphanumeric

5- or 9-character code

Optional